

# WINNERS OF THE FY 2007 COMPETITION UNDER THE DEFENSE UNIVERSITY RESEARCH INSTRUMENTATION PROGRAM -- Page 1 of 6

| Principal Investigator | Institution                              | ST | Brief Description of Instrumentation or Research it Supports                    | Awarding Office* |
|------------------------|--|----|---|------------------|
| Cameron Abrams         | Drexel University                        | PA | High-Performance Computer Cluster   | Army             |
| L. Allara              | Pennsylvania State University            | PA | Analysis of Energetic Nanocluster Materials                                     | Army             |
| Roger Arndt            | University of Minnesota                  | MN | Particle Image Velocimetry for use in Development of Missile Control Algorithms | ONR              |
| Raymond Ashoori        | Massachusetts Institute of Technology    | MA | Tunneling Spectroscopy  | Army             |
| James Baeder           | University of Maryland - College Park    | MD | Development of Micro Hovering Air Vehicles                                      | Army             |
| William Bailey         | Columbia University                      | NY | Microwave Suite for Heterostructures  | Army             |
| Ian Baker              | Dartmouth College                        | NH | Cryotransfer/Cold Stage System  | Army             |
| Balakumar Balachandran | University of Maryland - College Park    | MD | Membrane and Microscale Structures  | Army             |
| John Ballato           | Clemson University                       | SC | Specialty Optical Fiber Fabrication and Test System                             | Army             |
| Scott A. Banta         | Columbia University                      | NY | Circular Dichroism Spectrometer for Investigating Protein Behavior              | AFOSR            |
| Michel Barsoum         | Drexel University                        | PA | Acoustic Phenomena Research   | Army             |
| Malcolm R. Beasley     | Stanford University                      | CA | Ultra-high Vacuum Cryogenic Micromanipulator Probe System                       | AFOSR            |
| Boris Blinov           | University of Washington                 | WA | Excitation of Qubits for Information Processing, Communication and Cryptography | Army             |
| Walter F. Boron        | Yale University                          | CT | Structural Biology and Cellular Physiology of Gas Channels                      | ONR              |
| April Brown            | Duke University                          | NC | In Vacuo X-ray and Ultraviolet Photoelectron Spectroscopy Analytical System     | Army             |
| Robert A. Buhrman      | Cornell University                       | NY | Ion Beam Etching System with Mass Spectrometer for Etch End-Point Detection     | ONR              |
| Mark Campbell          | Cornell University                       | NY | Testbed for Networked, Semi-Autonomous Systems                                  | Army             |
| Weiguo Cao             | Clemson University                       | SC | Genetic Analyzer  | Army             |
| Luca Centurioni        | University of California - San Diego     | CA | Littoral Ocean Observing System   | ONR              |
| Carlos E.S. Cesnik     | University of Michigan - Ann Arbor       | MI | Scanning Laser Doppler Vibrometer for Structural Damage Assessment              | AFOSR            |
| Bedri Cetiner          | Morehead State University                | KY | Characterizing RF Micro-Electro-Mechanical Systems for High-Power Application   | Army             |
| Richard Chang          | Yale University                          | CT | Bioaerosols   | Army             |
| Aditi Chattopadhyay    | Arizona State University                 | AZ | Tracking Damage Nucleation and Propagation in Metallic Materials                | AFOSR            |
| Robert Graham Cooks    | Purdue University                        | IN | Miniature Mass Spectrometers for Enhanced Chemical Detection                    | ONR              |
| Michael Cooney         | University of Hawaii - Manoa             | HI | Pore Structure Analysis of Bioelectrocatalytic Electrodes                       | AFOSR            |
| Charles Czeisler       | Harvard Medical School                   | MA | Monitoring Human Alertness for Improving Performance and Safety                 | AFOSR            |
| Steven Danyluk         | Georgia Institute of Technology          | GA | Wear Analysis of Materials Subjected to Very High Electromagnetic Stress        | ONR              |
| Michael Davis          | Oklahoma State University                | OK | Exercise Metabolism Instrumentation for Dogs                                    | Army             |
| Lobo DeVitoria         | University of Central Florida            | FL | Visual-Sensing  | Army             |
| Marc de Graef          | Carnegie Mellon University               | PA | Robotized Metallographic Equipment with Automated Pattern Analysis              | AFOSR            |
| Karen de Mesy Bentley  | University of Rochester                  | NY | Analytical Transmission Electron Microscope                                     | AFOSR            |
| Lawrence A. DeCan      | University of New Orleans                | LA | Light Detection and Ranging in Ship Construction and Lifecycle Support          | ONR              |
| Scott A. DeLoach       | Kansas State University                  | KS | Test-bed for Intelligent, Mobile Sensors  | AFOSR            |
| David DeMille          | Yale University                          | CT | Apparatus for Trapping and Cooling of Polar Molecules                           | Army             |
| Tommy D. Dickey        | University of California - Santa Barbara | CA | Instrumentation for Observations of Dynamic Ocean Radiance                      | ONR              |

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|------------------------|---|----|---|------------------|
| Nikolaus Dietz         | Georgia State University                      | GA | High-Pressure Chemical Vapor Deposition to Grow Indium-rich III-Nitrides        | AFOSR            |
| David F. Dinges        | University of Pennsylvania                    | PA | Optimizing Performance through Sleep-wake Homeostasis                           | AFOSR            |
| Todd Ditmire           | University of Texas - Austin                  | TX | Streak Camera System for Ultrahigh Strain-Rate Spall Experiments                | Army             |
| Aristide Dogariu       | University of Central Florida                 | FL | Spatially-resolved Polarimetric Subwavelength Measurements                      | AFOSR            |
| Peter Dragic           | University of Illinois - Urbana-Champaign     | IL | Narrow Linewidth Fiber Lasers   | Army             |
| Xiojinag Du            | North Dakota State University                 | ND | Heterogeneous Sensor Network Testbed  | Army             |
| Robert Dynes           | University of California - Berkeley           | CA | Reactive Ion Etch for Patterning High Aspect Ratio Nanostructures               | AFOSR            |
| Danilo Erricolo        | University of Illinois - Chicago              | IL | Near-field Scanner for High Frequency Electromagnetic Field Measurements        | AFOSR            |
| Z. Fan                 | University of Florida                         | FL | Laboratory System for Proteomics Research                                       | Army             |
| Robert Feigelson       | Stanford University                           | CA | Thermal Analysis System for Advanced Ceramics                                   | AFOSR            |
| Chad Fertig            | University of Georgia                         | GA | High-power, Widely Tunable Laser System   | Army             |
| Jason Fleischer        | Princeton University                          | NJ | Wave-kinetic Dynamics in Statistical Nonlinear Optics                           | AFOSR            |
| Laura Frey Law         | University of Iowa                            | IA | Digital Human Modeling to Accommodate Vibration Environments                    | Army             |
| Carl Friehe            | University of California - Irvine             | CA | Air-Sea Interface and Marine Boundary-Layer Laser Anemometers                   | ONR              |
| Kirk Fuller            | University of Alabama - Huntsville            | AL | Instruments for Infrared to Ultraviolet Spectropolarimetry                      | Army             |
| Alec D. Gallimore      | University of Michigan - Ann Arbor            | MI | Cavity Ring-Down Spectroscopy Diagnostic for Hall Thruster Erosion              | AFOSR            |
| Jason Ganley           | Howard University                             | DC | Clay Nanocomposite Fuel Cell Membranes and Electrocatalysts                     | Army             |
| Qenzhong Gao           | Tennessee Technological University            | TN | Hybrid Fuel Cell Energy System Experimentation and Testing                      | Army             |
| Lev Gelb               | Washington University                         | MO | Computer System for First-Principles Simulations of Molecular Solids            | Army             |
| John Gillespie         | University of Delaware                        | DE | Metal Matrix Composite Processing Utilizing In-Situ Consolidation Methods       | Army             |
| Brian Gleeson          | Iowa State University                         | IA | Thermal Analysis for High Temperature Materials                                 | AFOSR            |
| William Goddard        | California Institute of Technology            | CA | Simulation and Modeling of Shocks and Detonation of Energetic Materials         | Army             |
| Terry Golding          | Texas State University                        | TX | Molecular Beam Epitaxy System for Hg-Based II-VI Infrared Materials and Devices | Army             |
| Rachel Goldman         | University of Michigan - Ann Arbor            | MI | Metal-Semiconductor Nanocomposites for Negative Index Metamaterials             | Army             |
| Alessandro Gomez       | Yale University                               | CT | Experimental and Computational Studies of Jet Fuel Combustion                   | Army             |
| William Goodhue        | University of Massachusetts - Lowell          | MA | Instrumentation for Processing High Quality Antimonide Materials                | AFOSR            |
| Phillip H. Goodman     | University of Nevada - Reno                   | NV | Parallel Robotic Brains   | ONR              |
| Arunava Gupta          | University of Alabama - Tuscaloosa            | AL | Pulsed Laser for Growth of Multiferroic and Magnetoelectric Thin Film Materials | ONR              |
| H. Thomas Hahn         | University of California - Los Angeles        | CA | X-Ray Tomography for Three-Dimensional Microstructure Characterization          | AFOSR            |
| Peter Hammel           | Ohio State University                         | OH | Electron Spin Resonance Spectrometer for Single Nuclear Spin Detection          | Army             |
| Doug Hansen            | University of Dayton                          | OH | Amino Acid Hydrolysis System for Investigating Growth of Ceramic Films          | AFOSR            |
| Ronald Hanson          | Stanford University                           | CA | Shock Tube and Laser Diagnostics  | Army             |
| Lene V. Hau            | Harvard University                            | MA | Nanotube Sculpting for Quantum Control with Cold Atoms                          | AFOSR            |
| William Helton         | Michigan Technological University             | MI | Human-Robot Interactions  | AFOSR            |
| Jan Hendrickx          | New Mexico Institute of Mining and Technology | NM | Scintillometer Transects for Remote Sensing Algorithms                          | Army             |

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|------------------------|--|----|--|------------------|
| William S. Hodgkiss    | University of California - Scripps Institution of Oceanography | CA | Broadband Multichannel Source-Receiver Nodes                                       | ONR              |
| Timothy P. Hogan       | Michigan State University                                      | MI | Powder Processing Instrumentation for Thermoelectrics Research                     | ONR              |
| Doug P. Horner         | Naval Post Graduate School                                     | CA | Collaborative and Persistent Operations with Autonomous Underwater Vehicles        | ONR              |
| Jonathan P. How        | Massachusetts Institute of Technology                          | MA | Indoor Multi-Vehicle Flight Test Capability  | AFOSR            |
| John Howell            | University of Rochester  | NY | All optical buffering of a quantum image   | Army             |
| Shanthi Iyer           | North Carolina A&T State University                            | NC | Antimony Valved Cracker for the Molecular Beam Epitaxy System                      | Army             |
| Ali Jadbabaie          | University of Pennsylvania                                     | PA | Distributed Coordination and Cooperative Surveillance for Groups of Vehicles       | ONR              |
| Alex Jen               | University of Washington                                       | WA | Thermal Evaporator System for Fabricating Organic Optoelectronics                  | AFOSR            |
| G. Kane Jennings       | Vanderbilt University  | TN | Nanotribometer for Study of Micro/Nano-electromechanical Systems                   | ONR              |
| Andrew Jessup          | University of Washington                                       | WA | Lighter-than-Air Imaging System Using Multiple, Uncooled Infrared Cameras          | ONR              |
| William Joines         | Duke University  | NC | Microwave Laboratory Instrumentation   | Army             |
| Anthony Joseph         | University of California - Berkeley                            | CA | Testbed for Cyber-Security   | AFOSR            |
| Christine Julien       | University of Texas - Austin                                   | TX | Mobile, Distributed and Pervasive Computing Test Bed                               | AFOSR            |
| Madhavi P. Kadakia     | Wright State University  | OH | Optical Inverted Microscope Imaging System   | AFOSR            |
| Ibrahim Karaman        | Texas A&M University - College Station                         | TX | Characterization Systems for Magnetic Shape Memory Alloys                          | Army             |
| Anette Karlsson        | University of Delaware   | DE | Nanointender for Mechanical and Electrical Properties of Multifunctional Materials | Army             |
| Fazeel Khan            | Miami University   | OH | Morphing Structures for Aircraft using Shape Memory Polymers                       | AFOSR            |
| Ozlem Kilic            | Catholic University of America                                 | DC | Reconfigurable Programming for Modeling and Analysis of Complex Systems            | Army             |
| Lyon B. King           | Michigan Technological University                              | MI | Microplasma Device Characterization  | AFOSR            |
| Leslie A. Kolodziej    | Massachusetts Institute of Technology                          | MA | Plasma Etching of Complex Combinations of III-V Heterostructures                   | AFOSR            |
| Nikhil Koratkar        | Rensselaer Polytechnic Institute                               | NY | Nanocomposites Characterization  | Army             |
| John Kouvetakis        | Arizona State University                                       | AZ | Hybrid Molecular Deposition for Low Temperature Materials Synthesis                | AFOSR            |
| Henry Krakauer         | College of William and Mary                                    | VA | Computer Cluster for Ab Initio Simulations of Piezoelectric Materials              | ONR              |
| Waltraud M. Kriven     | University of Illinois - Urbana-Champaign                      | IL | Micropore and Chemisorption System for Geopolymeric Materials Study                | AFOSR            |
| William A. Kuperman    | University of California - Scripps Institution of Oceanography | CA | Wave Propagation in Complex Media  | ONR              |
| Andres H. LaRosa       | Portland State University                                      | OR | Probing Surface and Bio-interfaces with Single Molecule Sensitivity                | AFOSR            |
| Ying-Cheng Lai         | Arizona State University                                       | AZ | Nonlinear Dynamics and Signal Processing Computation                               | AFOSR            |
| John Lambros           | University of Illinois - Urbana-Champaign                      | IL | Ultra-high-speed Digital Camera for Small-Scale Dynamic Metrology                  | Army             |
| Mounir Laroussi        | Old Dominion University  | VA | Instrumentation for Pulsed Non-Equilibrium Cold Plasma Research                    | AFOSR            |
| Lincoln J. Lauhon      | Northwestern University  | IL | Scanning Probe for Study of Multifunctional Nanostructured Materials               | ONR              |
| Enrique J. Lavernia    | University of California - Davis                               | CA | Spark Plasma Sintering for Nanostructured and Amorphous Materials Synthesis        | ONR              |
| Brian Levine           | University of Massachusetts - Amherst                          | MA | Outdoor Mobile Environment   | Army             |
| Xiaoqin (Elaine) Li    | University of Texas - Austin                                   | TX | Ultrafast Laser for Studies of Electron Coupling and Dynamics in Nanostructures    | Army             |
| Qilian Liang           | University of Texas - Arlington                                | TX | Knowledge-based Sensor Network Testbed for Threat Assessment                       | ONR              |
| Yongfeng Lu            | University of Nebraska - Lincoln                               | NE | Tunable Laser for Resonant Energy Coupling in Multi-Energy Processing              | ONR              |

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|---------------------------|---|----|---|------------------|
| Anupam Madhukar           | University of Southern California                           | CA | Imaging and Control of Photodetectors   | AFOSR            |
| Charles Marcus            | Harvard University  | MA | Cryogen-Free Millikelvin Systems for Quantum Information Processing             | Army             |
| Sandra Marshall           | San Diego State University                                  | CA | Cognitive Models of Decision Making in the Expeditionary Strike Group           | ONR              |
| David Martin              | University of Michigan - Ann Arbor                          | MI | Low Voltage Electron Microscope   | Army             |
| Eric Mazur                | Harvard University  | MA | Regeneratively Amplified Femtosecond Laser System                               | Army             |
| Margaret Anne McManus     | University of Hawaii - Manoa                                | HI | Autonomous Sensing of Layered Structures in Hawaiian Waters                     | ONR              |
| Madhu Menon               | University of Kentucky                                      | KY | Quantum Mechanical Simulation of Transition Metal-Carbon Nanotube Systems       | Army             |
| James A. Mercer           | University of Washington                                    | WA | Acoustic Source Development   | ONR              |
| Mark S. Mirotznik         | Catholic University of America                              | DC | Millimeter Wave Characterization System for Composite Electromagnetic Materials | ONR              |
| Ronald Moffitt            | Virginia Polytechnic Institute & State University           | VA | Counter-Rotating Mandrel Die for the Study of Superimposed Shear Flows          | Army             |
| Amar Mohanty              | Michigan State University                                   | MI | Polymer Processing Equipment for Optimization in Materials Research             | Army             |
| Jerome V. Moloney         | University of Arizona                                       | AZ | Ultrashort Pulse Propagation Experiments in Plasmonics                          | AFOSR            |
| Hadis Morkoc              | Virginia Commonwealth University                            | VA | Inductively Coupled Plasma Etching System                                       | AFOSR            |
| Yu (Jade) Tong Morton     | Miami University  | OH | Multi-Channel Radio Frequency System for Global Positioning System Research     | AFOSR            |
| Paul E. Nachtigall        | University of Hawaii - Manoa                                | HI | Instrumentation for Marine Mammal Evoked Potential Hearing Measurements         | ONR              |
| Kenneth H. Neelson        | University of Southern California                           | CA | Deep UV Laser Induced Native Fluorescence Biological Microscope                 | AFOSR            |
| Alexander Neimark         | Rutgers, The State University of New Jersey                 | NJ | Computational system for Simulation of Nanostructured Polymeric Materials       | Army             |
| Jeffrey Niemann           | Colorado State University - Ft. Collins                     | CO | Research on Soil Moisture in a Semi-arid Climate                                | Army             |
| Ivan Oleynik              | University of South Florida - Tampa                         | FL | High-Performance Computational Cluster for Energetic Materials Research         | Army             |
| Chad O'Neal               | Louisiana Technical University                              | LA | Wafer Bonder for Device Packaging Applications                                  | Army             |
| Andrew K. Ottens          | University of Florida                                       | FL | Mass Spectrometer System for Research on Brain Injury                           | ONR              |
| Zoubeida Ounaies          | Texas A&M University - Texas Engineering Experiment Station | TX | Combined Mechano-Chemical Characterization for Nanocomposites                   | AFOSR            |
| Thomas Pearl              | North Carolina State University                             | NC | Variable Temperature Dynamic Force Microscope with Atomic Resolution            | Army             |
| Yoav Peles                | Rensselaer Polytechnic Institute                            | NY | Micro-scale Particle Image Velocimetry  | ONR              |
| Shashi Phoha              | Pennsylvania State University                               | PA | Urban Surveillance Sensor Network   | Army             |
| William J. Plant          | University of Washington                                    | WA | Constructing a Coherent, X-Band Real Aperture Radar                             | ONR              |
| Stephen Pope              | Cornell University  | NY | Terascale Cluster for Turbulent Combustion Simulation                           | AFOSR            |
| Branko N. Popov           | University of South Carolina                                | SC | Power Supply with Multiple Channels for Bench-Scale Electroplating              | ONR              |
| Zoya Popovic              | University of Colorado at Boulder                           | CO | Linear and Nonlinear Micro/Millimeter-Wave Component Characterization           | ONR              |
| James Preisig             | Woods Hole Oceanographic Institution                        | MA | Medium through Very High Frequency Ocean Acoustics and Communications           | ONR              |
| Yu Qiao                   | University of California - San Diego                        | CA | Nanoporous Materials Characterization System                                    | Army             |
| Herschel Rabitz           | Princeton University  | NJ | Advanced Photonic Reagent Instrumentation                                       | Army             |
| Britt Raubenheimer        | Woods Hole Oceanographic Institution                        | MA | Sensor Array to Measure Waves Over Muddy Seafloors                              | ONR              |
| Krishnaswamy Ravi-Chandar | University of Texas - Austin                                | TX | Characterization of Elastomers and Elastomer Coated Structures                  | ONR              |
| Guruswami Ravichandran    | California Institute of Technology                          | CA | Thermal Imaging for Investigation of Thermo-Mechanical Phenomena in Solids      | Army             |

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|------------------------|---|----|--|------------------|
| Asok Ray               | Pennsylvania State University                     | PA | Instrumentation for Networked Robotics and Signal Intelligence               | Army             |
| Chittaranjan Ray       | University of Hawaii - Hilo                       | HI | Instrumentation for Study of Tropical Soils                                  | Army             |
| James L.Regens         | University of Oklahoma Health Sciences Center     | OK | Instrumentation for Analysis of Aerosol Deposition Dynamics                  | AFOSR            |
| Tong Ren               | Indiana University - Purdue University Fort Wayne | IN | Tool for Expedient Degradation of Chemical Systems                           | Army             |
| Martin Richardson      | University of Central Florida                     | FL | Precision Optical Fiber Processing Station for High Power Fiber Lasers       | Army             |
| Alexander Rimberg      | Dartmouth College                                 | NH | Fast Arbitrary Waveform Generator for Pulsed Gate Measurements               | Army             |
| Steven Ripp            | University of Tennessee - Knoxville               | TN | Biophotonic Imaging System   | Army             |
| Donald O. Rockwell     | Lehigh University                                 | PA | Space-Time Imaging Systems   | AFOSR            |
| John Rodgers           | University of Maryland - College Park             | MD | Threat Detection and Classification Based on Chaotic Microwave Systems       | ONR              |
| Christopher Rogan      | Pennsylvania State University                     | PA | Integrated Intelligence, Surveillance, and Reconnaissance Sensor Testbed     | Army             |
| Omowunmi Sadik         | State University of New York - Binghamton         | NY | Mass Spectrophotometer   | Army             |
| Tapan Sarkar           | Syracuse University                               | NY | Composite Time-frequency Domain Data System                                  | Army             |
| S. Shankar Sastry      | University of California - Berkeley               | CA | Heterogeneous Sensor Webs for Automated Target Recognition                   | Army/AFOSR       |
| Wallace Gregory Sawyer | University of Florida                             | FL | Nanotribology and Surface Science Research on Sliding Electrical Contacts    | ONR              |
| Linda Schadler         | Rensselaer Polytechnic Institute                  | NY | Nanotribology and Mechanics Experiments for Multifunctional Composites       | AFOSR            |
| Robert A. Schill       | University of Nevada - Las Vegas                  | NV | Secondary Electron Emission Test Stand for High Power Microwave Materials    | AFOSR            |
| Howard J. Schultz      | University of Massachusetts - Amherst             | MA | Polarimetric Imaging   | ONR              |
| Jorge Seminario        | Texas A&M University - College Station            | TX | Computational Design of Molecular Sensing Systems                            | Army             |
| Arunabha Sen           | Arizona State University                          | AZ | Test bed for Video Capabilities  | Army             |
| Wayne L. Shebilske     | Wright State University                           | OH | Intelligent Displays and Trainers for Dynamic Targeting Cells                | AFOSR            |
| Alexandru Sheremet     | University of Florida                             | FL | Monitoring System for Wave-Sediment Interaction in Muddy Environments        | ONR              |
| Roger Simpson          | Virginia Polytechnic Institute & State University | VA | Laser-Doppler Velocimeter  | AFOSR            |
| Edward C. Smith        | Pennsylvania State University                     | PA | Research on Rotorcraft Safety, Survivability, and Enhanced Performance       | ONR              |
| Mitchell Smooke        | Yale University                                   | CT | Implicit Compact Methods for Chemically Reacting Flows                       | AFOSR            |
| Eugene Smotkin         | Northeastern University                           | MA | Model Surfaces for Adsorbates on Electrode Surfaces and Chemical Transistors | Army             |
| Jonathan Spanier       | Drexel University                                 | PA | Atomic Layer Deposition System   | Army             |
| Gopalan Srinivasan     | Oakland University                                | MI | Vector Network Analyzer for Studies of Tunable Millimeter Wave Devices       | ONR              |
| Samuel Sprunt          | Kent State University                             | OH | Instrumentation for Exploring Enhanced Thermal Conductivity in Nanofluids    | ONR              |
| Andrew Steckl          | University of Cincinnati                          | OH | Molecular Beam Epitaxy Equipment for Rare-Earth-Based Lasers                 | Army             |
| Frederick Stern        | University of Iowa                                | IA | Wave Makers for Wave Basin   | ONR              |
| Adrienne Stiff-Roberts | Duke University                                   | NC | Hybrid Nanomaterial Growth System  | Army             |
| Michael Sulzer         | Cornell University                                | NY | Ionospheric and Plasma Physics in Near-Earth Space Environment               | ONR/AFOSR        |
| Mannur Sundaresan      | North Carolina A&T State University               | NC | Test-Bed for Health Monitoring   | Army             |
| Chih-Jen Sung          | Case Western Reserve University                   | OH | Gas Chromatography/Mass Spectrometry for Study of Surrogate Aero-Fuels       | Army             |
| Brook Swanson          | Gonzaga University                                | WA | Nano-force Testing Machine for Characterizing Biological Materials           | AFOSR            |

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|---------------------------|--|----|--|------------------|
| P. Craig Taylor           | Colorado School of Mines                                       | CO | Fourier Transform Infrared Ellipsometer for Electronic Materials Research      | AFOSR            |
| Eric J. Terrill           | University of California - Scripps Institution of Oceanography | CA | Remote Environmental Modeling System for Naval Operations                      | ONR              |
| Pierre Tiako              | Langston University  | OK | Networks Communication and Surveillance  | Army             |
| Ingvald Tyssebotn         | State University of New York - Buffalo                         | NY | Hemorrhagic Shock Research   | Army             |
| Richard P. Van Duyne      | Northwestern University  | IL | Atomic Layer Deposition and Single Molecule Raman Spectroscopy                 | AFOSR            |
| Eric Van Stryland         | University of Central Florida                                  | FL | Laser Pulse Characterization and Control System                                | Army             |
| Ganesh K. Venayagamoorthy | University of Missouri - Rolla                                 | MO | Simulation, Analysis and Testing of Power and Intelligent Control Systems      | ONR              |
| Robert J. Vidmar          | University of Nevada - Reno                                    | NV | Real-time Mass Spectrometer Detector for Air-Plasma Research                   | AFOSR            |
| Gregory Voth              | University of Utah   | UT | Computational Cluster for Multiscale Simulations of Ionic Liquids              | AFOSR            |
| Kenneth Wagener           | University of Florida  | FL | Thermogravimetric Analysis Instrumentation                                     | Army             |
| Christopher K. Walker     | University of Arizona  | AZ | Hazardous Materials Identification Using High Resolution Spectroscopy          | AFOSR            |
| Linbing Wang              | Virginia Polytechnic Institute & State University              | VA | Gas Gun for Exploring High Strain Rate Phenomena                               | Army             |
| Qing-Ming Wang            | University of Pittsburgh                                       | PA | Scanning Probe Microscopy for Nanomechanics and Biomechanics Research          | Army             |
| Qing Wang                 | Pennsylvania State University                                  | PA | Gel Permeation Chromatography for Dielectric Polymers with High Energy Density | ONR              |
| Junlan Wang               | University of California - Riverside                           | CA | High Power Laser System for High Strain-rate Materials Research                | Army             |
| Qiuming Wei               | University of North Carolina - Charlotte                       | NC | High-Speed Photography of Dynamic Processes in Materials                       | Army             |
| George Whitesides         | Harvard University   | MA | High-Pressure Liquid Chromatography System                                     | Army             |
| Wayne Wolf                | Princeton University   | NJ | Distributed Network for Multi-Band Video and Audio Tracking and Analysis       | Army             |
| Peter Worcester           | University of California - Scripps Institution of Oceanography | CA | Underwater Acoustic Source and Near-Water-Column Vertical Array Receiver       | ONR              |
| Jian Xu                   | Pennsylvania State University                                  | PA | Optoelectronic Test-Bench for Nanostructured Electronic and Photonic Materials | Army             |
| Peide Ye                  | Indiana University - Purdue University Fort Wayne              | IN | Atomic Layer Deposition System   | Army             |
| Richard Yetter            | Pennsylvania State University                                  | PA | Camera System for Combustion Analysis  | Army             |
| Jinsong Zhang             | Florida International University                               | FL | Wire Instrumentation System  | Army             |
| Min Zhou                  | Georgia Institute of Technology                                | GA | Optical High-Speed Imaging for Characterization of Material Behavior           | ONR              |

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